QC ABSTRACT

NAME OF WORK: Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.66	2	2
8	RCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	34.65	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	2 set /6-15 cum	15	8	8

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-25-44** **Date: 22-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.
Agency	:	Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-25-44** **Date: 18-07-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.
Agency	:	Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	20-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-25-44** **Date: 22-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.
Agency	:	Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-06-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	211	211	1.4	98.6	90-100
3	20 mm	7355	7566	50.4	49.6	30-70
4	10 mm	4219	11785	78.6	21.4	10-35
5	4.75 mm	2855	14640	97.6	2.4	0-5
6	Pan	360	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-25-44** **Date: 22-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.54**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.24**	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-25-44** **Date: 22-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.
Agency	:	Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032
Customer Reference	:	BBMP/EE/BTP/WO/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2188	2436	48.7	51.3	25-55
4	4.75 mm	2285	4721	94.4	5.6	0-10
5	Pan	279	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-25-44** **Date: 22-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-25-44** **Date: 22-06-22**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-06-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 20-06-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-25-44** **Date: 22-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-07-25-44** **Date: 22-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.
Agency	:	Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-22
Sample Type	:	INDUS
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	20-06-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS	Fe500	8	0.391	518	652	21.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	10	0.616	532	668	20.0%	Satisfactory	Satisfactory
3	INDUS	Fe500	12	0.888	550	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 02/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	02/07/2022	150.39 X 149.11 X 151.23	22425	9.009	287.1	12.8	12.3
2	RCC (1:2:4)	M15	25/06/2022	02/07/2022	149.80 X 150.93 X 151.24	22609	8.248	256.0	11.3	
3	RCC (1:2:4)	M15	25/06/2022	02/07/2022	149.05 X 149.35 X 149.14	22261	8.874	281.6	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 23/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	23/07/2022	151.38 X 151.15 X 150.43	22880	8.513	402.6	17.6	18.1
2	RCC (1:2:4)	M15	25/06/2022	23/07/2022	151.14 X 149.83 X 150.82	22645	9.071	423.3	18.7	
3	RCC (1:2:4)	M15	25/06/2022	23/07/2022	151.66 X 149.14 X 150.78	22618	8.654	405.9	17.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 02/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	02/07/2022	149.29 X 149.04 X 149.19	22249	8.794	284.5	12.8	12.5
2	RCC (1:2:4)	M15	25/06/2022	02/07/2022	150.85 X 150.54 X 149.93	22709	8.974	259.6	11.4	
3	RCC (1:2:4)	M15	25/06/2022	02/07/2022	150.42 X 149.41 X 151.15	22474	8.333	301.3	13.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bengaluru Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 23/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	23/07/2022	150.38 X 150.67 X 149.90	22658	9.013	406.4	17.9	18.1
2	RCC (1:2:4)	M15	25/06/2022	23/07/2022	149.80 X 150.84 X 151.86	22597	8.693	419.0	18.5	
3	RCC (1:2:4)	M15	25/06/2022	23/07/2022	149.57 X 150.89 X 149.03	22568	8.520	402.4	17.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 02/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	02/07/2022	150.61 X 149.95 X 149.25	22584	9.043	276.6	12.2	12.5
2	RCC (1:2:4)	M15	25/06/2022	02/07/2022	149.99 X 151.84 X 151.15	22775	9.021	270.4	11.9	
3	RCC (1:2:4)	M15	25/06/2022	02/07/2022	149.05 X 151.90 X 149.30	22641	8.146	304.8	13.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 23/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	23/07/2022	150.01 X 149.98 X 149.48	22499	8.293	396.5	17.6	18.2
2	RCC (1:2:4)	M15	25/06/2022	23/07/2022	149.78 X 149.80 X 151.54	22438	8.714	422.8	18.8	
3	RCC (1:2:4)	M15	25/06/2022	23/07/2022	149.66 X 150.06 X 149.51	22457	8.288	405.8	18.1	

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Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 02/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	02/07/2022	150.75 X 149.79 X 151.58	22581	8.900	286.1	12.7	12.6
2	RCC (1:2:4)	M15	25/06/2022	02/07/2022	149.42 X 150.86 X 150.41	22541	9.053	267.4	11.9	
3	RCC (1:2:4)	M15	25/06/2022	02/07/2022	151.62 X 149.36 X 149.04	22645	8.704	300.5	13.3	

* The results obtained are satisfactory as per standard requirements.

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Bangalore - 560 092

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 23/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-22

Customer ID : RCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC (1:2:4)	M15	25/06/2022	23/07/2022	149.29 X 151.04 X 149.14	22550	8.876	390.7	17.3	18.1
2	RCC (1:2:4)	M15	25/06/2022	23/07/2022	149.35 X 151.72 X 149.92	22660	8.591	421.8	18.6	
3	RCC (1:2:4)	M15	25/06/2022	23/07/2022	151.10 X 150.65 X 150.69	22763	8.170	418.1	18.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 04/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-22

Customer ID : Cement Concrete (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete (1:2:4)	M15	27/06/2022	04/07/2022	150.49 X 150.64 X 151.90	22670	8.123	273.6	12.1	12.2
2	Cement Concrete (1:2:4)	M15	27/06/2022	04/07/2022	149.44 X 150.33 X 151.74	22465	8.571	254.3	11.3	
3	Cement Concrete (1:2:4)	M15	27/06/2022	04/07/2022	150.11 X 149.50 X 150.42	22441	8.503	296.1	13.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 062

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 25/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-22

Customer ID : Cement Concrete (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete (1:2:4)	M15	27/06/2022	25/07/2022	150.07 X 150.50 X 151.47	22586	8.483	404.1	17.9	18.1
2	Cement Concrete (1:2:4)	M15	27/06/2022	25/07/2022	149.73 X 149.04 X 151.10	22315	8.665	420.0	18.8	
3	Cement Concrete (1:2:4)	M15	27/06/2022	25/07/2022	151.32 X 151.52 X 151.41	22927	8.457	406.6	17.7	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 09/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	02/07/2022	09/07/2022	149.43 X 150.75 X 151.20	22526	8.866	606.6	26.9	27.8
2	Cement Concrete Pavement	M30	02/07/2022	09/07/2022	151.72 X 151.89 X 150.43	23045	8.193	641.7	27.8	
3	Cement Concrete Pavement	M30	02/07/2022	09/07/2022	150.83 X 150.08 X 149.08	22636	8.269	651.2	28.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-25-44** **Date: 09/07/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/07/2022	09/07/2022	149.51 X 150.13 X 149.92	22446	8.489	623.1	27.8	28.0
2	Cement Concrete Pavement	M30	02/07/2022	09/07/2022	151.00 X 149.70 X 150.19	22605	8.626	623.1	27.6	
3	Cement Concrete Pavement	M30	02/07/2022	09/07/2022	151.71 X 151.74 X 151.56	23019	8.946	662.3	28.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2022-07-25-44** **Date: 24-06-22**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in amruthalli and surrounding area in ward No 07 Byatarayanapura.

Agency : Sri.U Ramesh, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT Nagara, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-06-22

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 20/06/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.02	1.255	4478	95.8	21.4	19.9	24.9
2	Cover Slab-2	75.49	100.01	1.256	4475	99.7	22.3	20.7	25.9
3	Cover Slab-3	75.51	100.02	1.236	4477	98.5	22.0	20.5	25.6

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

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Authorized Signatory
Technical Manager

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